

Title (en)

RADIO RECEIVER WITH TWO STAGES OF DC OFFSET CORRECTION, SYNCHRONISATION AND CHANNEL ESTIMATION

Title (de)

FUNKEMPFÄNGER MIT ZWEI STUFEN VON GLEICHSPANNUNGSVERSCHIEBUNGSKORREKTUR, SYNCHRONISATION UND KANALSCHÄTZUNG

Title (fr)

RECEPTEUR RADIO A DEUX ETAGES DE CORRECTION DE DECALAGE EN CONTINU, DE SYNCHRONISATION ET D'ESTIMATION DE CANAL

Publication

**EP 1228611 A1 20020807 (EN)**

Application

**EP 00975914 A 20001025**

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Abstract (en)

[origin: GB2355900A] A direct conversion receiver is disclosed, in which a DC offset is estimated in two stages. A coarse DC estimation 8 is performed, and the estimate is removed 10 from the received sequence. Then, a coarse synchronization 12 is performed in order to estimate the synchronization position within the burst. Subsequently, a coarse channel estimation and a finer DC estimation are performed simultaneously 14, and the refined DC estimate is removed 16. Finally, a refined synchronization 18 and channel estimation are performed 20, and the refined estimate of the channel is fed to an equaliser 22, which acts on the received signal, after removal of the refined estimate of the DC component.

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